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02207676 \*\*Image available\*\*

OUTPUT ADJUSTING DEVICE FOR SEMICONDUCTOR LASER

PUB. NO.: 62-124576 [JP 62124576 A]  
 PUBLISHED: June 05, 1987 (19870605)  
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 APPL. NO.: 60-263767 [JP 85263767]  
 FILED: November 26, 1985 (19851126)  
 INTL CLASS: [4] G03G-015/04; H01S-003/133; H04N-001/23; B41J-003/00  
 JAPIO CLASS: 29.4 (PRECISION INSTRUMENTS -- Business Machines); 42.2  
 (ELECTRONICS -- Solid State Components); 44.7 (COMMUNICATION  
 -- Facsimile)  
 JAPIO KEYWORD: R002 (LASERS); R131 (INFORMATION PROCESSING -- Microcomputers  
 & Microprocessors)  
 JOURNAL: Section: P, Section No. 635, Vol. 11, No. 342, Pg. 30,  
 November 10, 1987 (19871110)

## ABSTRACT

PURPOSE: To control the output of a semiconductor laser finely with simple constitution by converting the detection value of the output of the semiconductor laser from analog to digital and determining the value of a current supplied to the semiconductor laser, converting current value data corresponding to the determined current value from digital to analog, and supplying the corresponding current to the semiconductor laser.

CONSTITUTION: A microcomputer 31 determines the value of the current supplied to the semiconductor laser 32 based on an A/D converted value from an A/D converter 35 and outputs the digital current value data from a specific port to a D/A converter 36 through a data bus according to the determined current value. This D/A converter 36 converts the current value data from the microcomputer 31 from digital to analog to obtain analog data. The converted value of this D/A converter 36 is converted (I/V) into a voltage value by the current-voltage converting circuit composed of an operational amplifier 37, a variable resistor 38, and a resistance 39, and the voltage is supplied to the base of a transistor 41 interposed in the feed path of the semiconductor laser 32.

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